Reinhard B Neder

List of Publications by Year
in descending order

35	1,095	471509	434195
papers	citations	17 h-index	31 g-index

40	40	40	1845
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Universal solvent restructuring induced by colloidal nanoparticles. Science, 2015, 347, 292-294.	12.6	172
2	Biomimetic control of crystal assembly by growth in an organic hydrogel network. American Mineralogist, 2003, 88, 647-652.	1.9	94
3	Building and refining complete nanoparticle structures with total scattering data. Journal of Applied Crystallography, 2011, 44, 327-336.	4.5	70
4	Structure of nanoparticles from powder diffraction data using the pair distribution function. Journal of Physics Condensed Matter, 2005, 17, S125-S134.	1.8	68
5	Dramatic increase in charge carrier lifetime in a liquid crystalline perylene bisimide derivative upon bay substitution with chlorine. Journal of Materials Chemistry, 2005, 15, 1270-1276.	6.7	61
6	Solving the Hydrogen and Lithium Substructure of Poly(triazine imide)/LiCl Using NMR Crystallography. Chemistry - A European Journal, 2016, 22, 16878-16890.	3.3	54
7	Aspects of the modelling of the radial distribution function for small nanoparticles. Journal of Applied Crystallography, 2007, 40, 975-985.	4.5	42
8	Towards quantitative treatment of electron pair distribution function. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2019, 75, 532-549.	1.1	38
9	Defect crystal structure of new TiO(OH)2 hydroxide and related lithium salt Li2TiO3. Dalton Transactions, 2010, 39, 8168.	3.3	36
10	Modulated Structure of the Composite Crystal Urea/n-Heptadecane. Acta Crystallographica Section B: Structural Science, 1997, 53, 544-552.	1.8	32
11	Structural phase transition to disorder low-temperature phase in [Fe(ptz)₆](BF₄)₂ spin-crossover compounds. Acta Crystallographica Section B: Structural Science, 2012, 68, 40-56.	1.8	27
12	Celebrating 100 years of the Debye scattering equation. Acta Crystallographica Section A: Foundations and Advances, 2016, 72, 589-590.	0.1	25
13	Studies on the synthesis of chiral nonracemic 3,4-disubstituted azepanes, a formal synthesis of (+)- and (â^')-balanol. Tetrahedron: Asymmetry, 1999, 10, 4521-4537.	1.8	24
14	Treatment of hydrogen background in bulk and nanocrystalline neutron total scattering experiments. Journal of Applied Crystallography, 2011, 44, 532-539.	4.5	24
15	Elucidating structural order and disorder phenomena in mullite-type Al4B2O9 by automated electron diffraction tomography. Journal of Solid State Chemistry, 2017, 249, 114-123.	2.9	22
16	Atomic-level structural correlations across the morphotropic phase boundary of a ferroelectric solid solution: xBiMg1/2Ti1/2O3-(1â€‰â^'â€‰x)PbTiO3. Scientific Reports, 2017, 7, 471.	3.3	20
17	The nature of x-ray scattering from geo-nanoparticles: Practical considerations of the use of the Debye equation and the pair distribution function for structure analysis. Chemical Geology, 2012, 329, 3-9.	3.3	18
18	Structure of small IIâ€‰VI semiconductor nanoparticles: A new approach based on powder diffraction. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 3234-3243.	0.8	17

#	Article	IF	Citations
19	Ensemble modeling of very small ZnO nanoparticles. Physical Chemistry Chemical Physics, 2011, 13, 498-505.	2.8	17
20	Ab initiostructure determination and quantitative disorder analysis on nanoparticles by electron diffraction tomography. Acta Crystallographica Section A: Foundations and Advances, 2018, 74, 93-101.	0.1	17
21	Exact and fast calculation of the X-ray pair distribution function. Journal of Applied Crystallography, 2020, 53, 710-721.	4.5	15
22	New zeolite-like RUB-5 and its related hydrous layer silicate RUB-6 structurally characterized by electron microscopy. IUCrJ, 2020, 7, 522-534.	2.2	15
23	Synthesis and characterisation of new MO(OH)₂(M = Zr, Hf) oxyhydroxides and related Li₂MO₃salts. Dalton Transactions, 2014, 43, 2755-2763.	3.3	12
24	Room-temperature solâ€“gel synthesis of organic ligand-capped ZnO nanoparticles. Journal of Nanoparticle Research, 2015, 17, 1.	1.9	12
25	The evolution of crystalline ordering for ligand-ornamented zinc oxide nanoparticles. CrystEngComm, 2016, 18, 2163-2172.	2.6	11
26	Influence of liquidâ€phase synthesis parameters on particle sizes and structural properties of nanocrystalline ZnO powders. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 3260-3269.	0.8	10
27	Diffuse single-crystal scattering corrected for molecular form factor effects. Acta Crystallographica Section A: Foundations and Advances, 2017, 73, 231-237.	0.1	7
28	Defect Crystal Structure of Low Temperature Modifications of Li₂MO₃ (M=Ti,) Tj ETQq0 0 0 rgBT /Overlock 10	0.2	6
29	Development of the local and average structure of a Vâ€“Moâ€“Nb oxide catalyst with Mo₅O₁₄-like structure during synthesis from nanostructured precursors. Zeitschrift FÃ¼r Kristallographie, 2012, 227, 288-298.	1.1	6
30	Crystal-structure of active layers of small molecule organic photovoltaics before and after solvent vapor annealing. Zeitschrift Fur Kristallographie - Crystalline Materials, 2020, 235, 15-28.	0.8	6
31	Interpretation of diffuse scattering using superspace crystallography. Physical Review B, 2019, 100, .	3.2	5
32	Efficient solution of particle shape functions for the analysis of powder total scattering data. Journal of Applied Crystallography, 2022, 55, 329-339.	4.5	2
33	Close-packed structures with finite-range interaction: computational mechanics of layer pair interaction. Acta Crystallographica Section A: Foundations and Advances, 2017, 73, 357-369.	0.1	1
34	Close-packed structure dynamics with finite-range interaction: computational mechanics with individual layer interaction. Acta Crystallographica Section A: Foundations and Advances, 2017, 73, 377-386.	0.1	0
35	Personal reflections. Part 69. Zeitschrift Fur Kristallographie - Crystalline Materials, 2002, 217, 355-355.	0.8	0